



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 14, 2017

Gregory C. Mattern
Regulatory Manager
Nufarm Americas, Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560

Subject: Notification per PRN 98-10 – Marketing claims, update company address
Product Name: Viper Weed and Feed (18#/5M)
EPA Registration Number: 228-412
Application Date: May 8, 2017
Decision Number: 529540

Dear Mr. Mattern:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance. If you have any questions, you may contact Mindy Ondish at 703-605-0723 or via email at ondish.mindy@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Mindy Ondish for".

Kathryn V. Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

NOTIFICATION

228-412

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/14/2017

Commercial

VIPER® WEED AND FEED (18#/5M)

THIS PRODUCT IS A PREMIUM GRADE HERBICIDE AND TURF FOOD COMBINATION WHICH CONTROLS A WIDE SPECTRUM OF BROADLEAF WEEDS WHILE PROVIDING BOTH FAST AND LONG FEEDING ACTION.

CONTAINS 2,4-D, MECOPROP-p AND DICAMBA

Weeds contacted by this product gradually die and disappear from the lawn/turf.
Treats (or covers) 5,000 Square Feet (50' x 100')

GET THE OPTICAL ADVANTAGE®

ACTIVE INGREDIENTS:

Isooctyl (2-ethylhexyl) Ester of 2,4-Dichlorophenoxyacetic Acid*	1.196%
2,4-Dichlorophenoxyacetic Acid*	0.162%
(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid**‡	0.319%
Dicamba (3,6-Dichloro-o-Anisic Acid)***	0.080%

OTHER INGREDIENTS:

TOTAL: 100.000%

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid (Total)	0.955%
**(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid	0.319%
***3,6-Dichloro-o-Anisic Acid	0.080%

‡CONTAINS THE SINGLE ISOMER FORM OF MECOPROP-p

GUARANTEED ANALYSIS:°

Total Nitrogen (N)	X%
X% Ammoniacal Nitrogen	
X% Urea Nitrogen	
Available Phosphate (P ₂ O ₅)	X%
Soluble Potash(K ₂ O)	X%
Primary Plant Foods derived from (List sources).	
Chlorine (Cl) Maximum	X%
The urea nitrogen in this product has been coated to provide X% coated slow release urea nitrogen.	
Fertilizer guaranteed by (Name of Fertilizer registrant)	

**KEEP OUT OF REACH OF CHILDREN
CAUTION**
SEE BACK PANEL FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-412
EPA EST. NO. 228-IL-1

Manufactured For
NUFARM AMERICAS INC.
11901 South Austin Avenue
Alsip, IL 60803



NET WEIGHT Lbs. (Kg)

000228-00412.20170508.COM.NOTIF (HL)

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators, and other handlers must wear:

- long-sleeved shirt and long pants,
- shoes and socks, plus
- chemical-resistant gloves

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

ENVIRONMENTAL HAZARDS

This pesticide may be toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

Do not enter or allow people (or pets) to enter the treated area until dusts have settled. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not use this product on or near desirable plants, including within the dripline of the roots of desirable trees and shrubs, since injury may result.

This product is a stable mixture of four herbicides. It is for use on Ornamental Turf (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways, Aprons, Tees and Roughs) and similar turf areas.

This product may be used on Bahia, common Bermuda, Blue Grass, Centipede, Fescue, Rye, St. Augustine, and Zoysia grass. DO NOT USE on Dichondra and Carpet grass. DO NOT USE this product where desirable clovers are present or allow the product to "wind drift" onto flowers, vegetables, ornamentals, shrubs, trees or other desirable plants.

Do not apply more than 2 applications per year, including broadcast applications in combination with spot treatments.

Not for use on turf grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

This product is designed to promote lush green growth in lawns/turf and control many broadleaf weeds such as:

Alder	Common chickweed	Horsetail	Prostrate pigweed	Tarweed
Annual yellow	Common mullein	Indiana mallow	Prostrate spurge	Thistle
sweet clover	Common sowthistle	Ironweed	Prostrate vervain	Tick trefoil
Artichoke	Corn Chamomile	Jewelweed	Puncture vine	Toadflax
Aster	Creeping jenny	Jimsonweed	Purslane	Trailing crownvetch
Austrian fieldcress	Crimson clover	Kochia	Ragweed	Tumble mustard
Bedstraw	Croton	Knawel	Red clover	Tumble pigweed
Beggartick	Cudweed	Knotweed	Redroot pigweed	Tumbleweed
Biden	Curly dock	Lambsquarter	Red sorrel	Velvet leaf
Bindweed	Curly indigo	Lespedeza	Redstem filaree	Venice mallow
Bird vetch	Dandelion	Locoweed	Rough cinquefoil	Veronica
Bitterweed	Dead nettle	Lupine	Rough fleabane	Vervain
Bitter wintercress	Dock	Mallow	Roundleafed marigold	Vetch
Black-eyed Susan	Dogbane	Marshelder	Rush	Virginia buttonweed
Black medic	Dogfennel	Matchweed	Russian pigweed	Virginia creeper
Black mustard	Elderberry	Mexicanweed	Russian thistle	Virginia pepperweed
Black-seed plantain	English daisy	Milk vetch	St. Johnswort	Wavyleaf bullthistle
Blessed thistle	Fall dandelion	Milkweed bloodflower	Scarlet pimpernel	Western clematis
Blue lettuce	False dandelion	Mugwort	Scotch thistle	Western salsify
Blue vervain	False flax	Morningglory	Sheep sorrel	White clover
Box elder	False sunflower	Mouseear chickweed	Shepherdspurse	White mustard
Bracted plantain	Fiddleneck	Musk thistle	Slender plantain	Wild mustard
Brassbuttons	Field bindweed	Mustard	Smallflower galinsoga	Wild aster
Bristly oxtongue	Field pansy	Narrowleaf plantain	Smartweed	Wild buckwheat
Broadleaf dock	Flea bane (daisy)	Narrowleaf vetch	Smooth dock	Wild carrot
Broadleaf plantain	Flixweed	Nettle	Smooth pigweed	Wild four-o'clock
Broomweed	Florida betony	Nutgrass	Sneezeweed	Wild garlic
Buckhorn	Florida pusley	Orange hawkweed	Southern wild rose	Wild geranium
Buckhorn plantain	Frenchweed	Oxalis	Sowthistle	Wild lettuce
Bulbous buttercup	Galinsoga	Oxeye daisy	Spanishneedle	Wild marigold
Bull nettle	Garlic mustard	Parsley-piert	Spatterdock	Wild onion
Bull thistle	Goathead	Parsnip	Speedwell	Wild parsnip
Burdock	Goatsbeard	Pearlwort	Spiny amaranth	Wild radish
Burning nettle	Goldenrod	Pennycress	Spiny cocklebur	Wild rape
Bur ragweed	Ground ivy	Pennywort	Spotted catsear	Wild strawberry
Burweed	Gumweed	Peppergrass	Spotted knapweed	Wild sweet potato
Buttercup	Hairy bittercress	Pepperweed	Spotted spurge	Wild vetch
Canada thistle	Hairy fleabane	Pigweed	Spurge	Willow
Carolina geranium	Hawkweed	Pineywoods bedstraw	Spurweed	Witchweed
Carpetweed	Healall	Plains coreopsis	Stinging nettle	Wooly morningglory
Catchweed bedstraw	Heartleaf drymary	Plantain	Stinkweed	Woodsorrel
Catsear	Hedge bindweed	Poison hemlock	Stitchwort	Wooly croton
Catnip	Hedge mustard	Poison ivy	Strawberry clover	Wooly plantain
Chickweed	Hemp	Poison oak	Sumac	Wormseed
Chicory	Henbit	Pokeweed	Sunflower	Yarrow
Cinquefoil	Hoary cress	Poorjoe	Sweet clover	Yellow rocket
Clover	Hoary plantain	Povertyweed	Tall nettle	Yellowflower
Cockle	Hoary vervain	Prickly lettuce	Tall vervain	pepperweed,
Cocklebur	Honeysuckle	Prickly sida	Tansy mustard	and other broadleaf
Coffeebean	Hop clover	Primrose	Tansy ragwort	weeds.
Coffeeweed	Horsenettle	Prostrate knotweed	Tanweed	

WHEN TO APPLY: Best results are obtained when weeds are growing actively in spring or early fall. Avoid contact with desirable shrubs, plants, vegetables, or flowers; especially when applying with a rotary (spinner) type spreader. Do not reseed for at least 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn/turf until after 3 mowings. For optimum results: (1) Avoid mowing 1 to 2 days before and after application; (2) Apply when grass is moist (after a rain sprinkling or dew); (3) Avoid unnecessary disturbances, including watering of treated areas for 48 hours after application. Watering will wash off weed killing material; and (4) Avoid applying if rainfall is expected within 48 hours following treatment. Possible retreatment in approximately 30 days may be necessary if area is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed recommended rates because damage to turf may occur.

NOTE: When applying to Southern Grasses - under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration on Centipede and St. Augustine grasses. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grass.

HOW TO APPLY: This 18 pound bag should be used on 5,000 square feet. Apply evenly with a lawn/turf spreader as a one pass application. A two pass application, criss-crossing the area at half the rate each time is equal to one application.

The following settings are approximate for applying contents of this package at a suggested rate of 3.6 pounds per 1,000 square feet. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed. Check your spreader on 250 square feet and adjust to apply at the rate of 0.9 pound per 250 square feet.

**SPREADER SETTINGS
ONE PASS APPLICATION^o**

<u>MAKE</u>	<u>SETTING</u>
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

(The following paragraph is mandatory in Kentucky when the nitrogen analysis does not provide 1 pound of nitrogen per 1,000 square feet; otherwise, this information is optional.)

A lawn/turf area typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing *(No. of lbs.)* pounds of nitrogen per 1,000 square feet (optional P₂O₅ and K₂O levels) and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

*Based on Inert fertilizer claimed.

Limitations:

The maximum rate per application is 3.6 pounds per 1,000 square feet, limited to 2 applications per year. The maximum seasonal rate is 7.2 pounds per 1,000 square feet, in combination with spot treatments. Minimum of 30 days between applications.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Always use original container to store pesticides in a secured warehouse or storage building. Do not stack more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, clean up all spilled material. Improper disposal of excess pesticide, spray mixtures or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

For nonrefillable bags of granular or dry formulation

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

or

Solid dilutable formulations in nonrefillable plastic containers

CONTAINER DISPOSAL: Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

CONTAINER DISPOSAL: Nonrefillable containers larger than 5 Gallons: Nonrefillable container. Do not reuse or refill this container. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(RV_____)

Viper and The Optical Advantage are Registered Trademarks of Nufarm Americas Inc.

The following note will not be part of the actual label copy.

*NOTE: Guaranteed (fertilizer) Analysis and Spreader Settings will vary among various commercial fertilizer manufacturers. Chlorine declaration is optional except where mandated by State fertilizer regulation.

Editor's notes: 1. Subregistrant Warranty Statements previously accepted by U.S. EPA for use on their own registered products are not included on this label.
2. Subregistrant's trademark name acknowledgments are not included on this label.

OPTIONAL MARKETING STATEMENTS:

Contains VIPER® Broadleaf Herbicide

Warm Season Broadleaf Control – SPRING / SUMMER

Summer long feed with UMAXX technology plus warm season broadleaf control

Four component herbicide that controls most broadleaf weeds

More than 250 weeds controlled!

App 2 [of 4 step program] [App1: JRK Brand Crabgrass Preventer & Lawn Fertilizer; App2: JRK Brand Weed & Feed; App3: JRK Brand Turf Special; App4: JRK Brand Winterizer]

JRK Brand

A Gertens Family of Products

Increases water retention

Improves turf and soil quality

Contains Humic and fulvic acids

Fortified with Nutromatic [ingredients]

Maximize Your Lawn's Potential!

Fights Weeds with VIPER® Herbicide!

A fertilizer containing VIPER® Herbicide which controls: Dandelion, Spurge, Plantain, Chickweed and many other broadleaf weeds.

Use when weeds are actively growing.

Controls over 200 Broadleaf Weeds!

Lawn Fertilizer with Weed Control

Nitrogen – Promotes thick, green turf (or) For vigorous blade, leaf and stem growth and dark green color (or) Contains no Nitrogen

Phosphate - For root development and growth (or) Contains no Phosphorous

Potash or Potassium – Strengthens grass against disease (or) Promotes strong roots and improves turf hardness (or) Contains no Potassium

OPTIONAL SPREADER INSTRUCTIONS:

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply product along the length of the lawn, overlapping very slightly and shutting off spreader when turning.

(Illustration) For Rotary Spreaders: Apply in a circular path, starting on the outside and working toward the center, overlapping very slightly.

OPTIONAL FERTILIZER TEXT:

Contains LESCO Poly Plus ® Sulfur Coated Urea to provide uniform growth with extended nitrogen feeding. Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea.

Poly Plus ® is comprised of Polymer Coated Sulfur Coated Urea.

With FERTIL BLEND™

OPTIONAL LABEL LANGUAGE FOR DIFFERENT BAG SIZES:

XX pound bag should treat XXXXX square feet.

VIPER®

WEED AND FEED (18#/5M)

THIS PRODUCT IS A PREMIUM GRADE HERBICIDE AND TURF FOOD COMBINATION WHICH CONTROLS A WIDE SPECTRUM OF BROADLEAF WEEDS WHILE PROVIDING BOTH FAST AND LONG FEEDING ACTION.

CONTAINS 2,4-D, MECOPROP-p AND DICAMBA

Weeds contacted by this product gradually die and disappear from the lawn.
Treats (or covers) 5,000 Square Feet (50' x 100')

GET THE OPTICAL ADVANTAGE®

ACTIVE INGREDIENTS:

Isooctyl (2-ethylhexyl) Ester of 2,4-Dichlorophenoxyacetic Acid*	1.196%
2,4-Dichlorophenoxyacetic Acid*	0.162%
(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid**‡	0.319%
Dicamba (3,6-Dichloro-o-Anisic Acid)***	0.080%

OTHER INGREDIENTS:	98.243%
TOTAL:	100.000%

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid (Total)	0.955%
**(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid	0.319%
***3,6-Dichloro-o-Anisic Acid	0.080%

‡CONTAINS THE SINGLE ISOMER FORM OF MECOPROP-p

GUARANTEED ANALYSIS:*

Total Nitrogen (N)	X%
X% Ammoniacal Nitrogen	
X% Urea Nitrogen	
Available Phosphate (P ₂ O ₅)	X%
Soluble Potash(K ₂ O)	X%
Primary Plant Foods derived from (List sources).	
Chlorine (Cl) Maximum	X%

The urea nitrogen in this product has been coated to provide X% coated slow release urea nitrogen.
Fertilizer guaranteed by (Name of Fertilizer registrant)

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE BACK PANEL FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-412
EPA EST. NO. 228-IL-1

Manufactured For
NUFARM AMERICAS INC.
11901 South Austin Avenue
Alsip, IL 60803



NET WEIGHT Lbs. (Kg)

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long pants, long-sleeved shirt, socks and shoes when applying this product. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn will help to prevent run off to water bodies or drainage systems.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application. Do not allow people or pets to enter the treated area until dusts have settled.

Do not apply directly to or near water, storm drains, gutters, sewers, or drainage ditches. Do not apply within 25 feet of rivers, fish ponds, lakes, streams, reservoirs, marshes, estuaries, bays, and oceans. Do not apply when windy. Apply this product directly to your lawn and sweep any product landing on the driveway, sidewalk, gutter, or street back onto the treated area. To prevent product run-off, do not over water the treated area(s) to the point of runoff or apply when raining or when rain is expected that day.

Do not apply more than 2 applications per year, including broadcast applications in combination with spot treatments.

This product is a stable mixture of four herbicides. It is for use on residential turf.

This product may be used on Bahia, common Bermuda, Blue Grass, Centipede, Fescue, Rye, St. Augustine, and Zoysia grass. **DO NOT USE** on Dichondra and Carpet grass. **DO NOT USE** this product where desirable clovers are present or allow the product to "wind drift" onto flowers, vegetables, ornamentals, shrubs, trees or other desirable plants.

This product is designed to promote lush green growth in lawns and control many broadleaf weeds such as:

Alder	Blue vervain	Carolina geranium	Croton	Flixweed
Annual yellow	Box elder	Carpetweed	Cudweed	Florida betony
sweet clover	Bracted plantain	Catchweed bedstraw	Curly dock	Florida pusley
Artichoke	Brassbuttons	Catsear	Curly indigo	Frenchweed
Aster	Bristly oxtongue	Catnip	Dandelion	Galinsoga
Austrian fieldcress	Broadleaf dock	Chickweed	Dead nettle	Garlic mustard
Bedstraw	Broadleaf plantain	Chicory	Dock	Goathead
Beggartick	Broomweed	Cinquefoil	Dogbane	Goatsbeard
Biden	Buckhorn	Clover	Dogfennel	Goldenrod
Bindweed	Buckhorn plantain	Cockle	Elderberry	Ground ivy
Bird vetch	Bulbous buttercup	Cocklebur	English daisy	Gumweed
Bitterweed	Bull nettle	Coffeebean	Fall dandelion	Hairy bittercress
Bitter wintercress	Bull thistle	Coffeeweed	False dandelion	Hairy fleabane
Black-eyed Susan	Burdock	Common chickweed	False flax	Hawkweed
Black medic	Burning nettle	Common mullein	False sunflower	Healall
Black mustard	Bur ragweed	Common sowthistle	Fiddleneck	Heartleaf drymary
Black-seed plantain	Burweed	Corn Chamomile	Field bindweed	Hedge bindweed
Blessed thistle	Buttercup	Creeping jenny	Field pansy	Hedge mustard
Blue lettuce	Canada thistle	Crimson clover	Flea bane (daisy)	(continued)

Hemp	Nettle	Redroot pigweed	Stinkweed	Wild aster
Henbit	Nutgrass	Red sorrel	Stitchwort	Wild buckwheat
Hoary cress	Orange hawkweed	Redstem filaree	Strawberry clover	Wild carrot
Hoary plantain	Oxalis	Rough cinquefoil	Sumac	Wild four-o'clock
Hoary vervain	Oxeye daisy	Rough fleabane	Sunflower	Wild garlic
Honeysuckle	Parsley-piert	Roundleafed marigold	Sweet clover	Wild geranium
Hop clover	Parsnip	Rush	Tall nettle	Wild lettuce
Horsenettle	Pearlwort	Russian pigweed	Tall vervain	Wild marigold
Horsetail	Pennycress	Russian thistle	Tansy mustard	Wild onion
Indiana mallow	Pennywort	St. Johnswort	Tansy ragwort	Wild parsnip
Ironweed	Peppergrass	Scarlet pimpernel	Tanweed	Wild radish
Jewelweed	Pepperweed	Scotch thistle	Tarweed	Wild rape
Jimsonweed	Pigweed	Sheep sorrel	Thistle	Wild strawberry
Kochia	Pineywoods bedstraw	Shepherdspurse	Tick trefoil	Wild sweet potato
Knawel	Plains coreopsis	Slender plantain	Toadflax	Wild vetch
Knotweed	Plantain	Smallflower galinsoga	Trailing crownvetch	Willow
Lambsquarter	Poison hemlock	Smartweed	Tumble mustard	Witchweed
Lespedeza	Poison ivy	Smooth dock	Tumble pigweed	Wooly morningglory
Locoweed	Poison oak	Smooth pigweed	Tumbleweed	Woodsorrel
Lupine	Pokeweed	Sneezeweed	Velvet leaf	Wooly croton
Mallow	Poorjoe	Southern wild rose	Venice mallow	Wooly plantain
Marshelder	Povertyweed	Sowthistle	Veronica	Wormseed
Matchweed	Prickly lettuce	Spanishneedle	Vervain	Yarrow
Mexicanweed	Prickly sida	Spatterdock	Vetch	Yellow rocket
Milk vetch	Primrose	Speedwell	Virginia buttonweed	Yellowflower pepperweed,
Milkweed bloodflower	Prostrate knotweed	Spiny amaranth	Virginia creeper	
Mugwort	Prostrate pigweed	Spiny cocklebur	Virginia pepperweed	
Morningglory	Prostrate spurge	Spotted catsear	Wavyleaf bullthistle	and other broadleaf weeds.
Mousear chickweed	Prostrate vervain	Spotted knapweed	Western clematis	
Musk thistle	Puncture vine	Spotted spurge	Western salsify	
Mustard	Purslane	Spurge	White clover	
Narrowleaf plantain	Ragweed	Spurweed	White mustard	
Narrowleaf vetch	Red clover	Stinging nettle	Wild mustard	

WHEN TO APPLY: Best results are obtained when weeds are growing actively in spring or early fall. Avoid contact with desirable shrubs, plants, vegetables, or flowers; especially when applying with a rotary (spinner) type spreader. Do not reseed for at least 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn until after 3 mowings. For optimum results: (1) Avoid mowing 1 to 2 days before and after application; (2) Apply when grass is moist (after a rain sprinkling or dew); (3) Avoid unnecessary disturbances, including watering of treated areas for 48 hours after application. Watering will wash off weed killing material; and (4) Avoid applying if rainfall is expected within 48 hours following treatment. Possible retreatment in approximately 30 days may be necessary if lawn is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed recommended rates because damage to turf may occur.

NOTE: When applying to Southern Grasses - under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration on Centipede and St. Augustine grasses. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grass.

HOW TO APPLY: This 18 pound bag should be used on 5,000 square feet. Apply evenly with a lawn spreader as a one pass application. A two pass application, criss-crossing the area at half the rate each time is equal to one application.

The following settings are approximate for applying contents of this package at a suggested rate of 3.6 pounds per 1,000 square feet. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed. Check your spreader on 250 square feet and adjust to apply at the rate of 0.9 pound per 250 square feet.

**SPREADER SETTINGS
ONE PASS APPLICATION^o**

<u>MAKE</u>	<u>SETTING</u>
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

(The following paragraph is mandatory in Kentucky when the nitrogen analysis does not provide 1 pound of nitrogen/1,000 square feet; otherwise, this information is optional.)

A lawn typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing *(No. of lbs.) pounds of nitrogen per 1,000 square feet (optional P₂O₅ and K₂O levels) and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

*Based on Inert fertilizer claimed.

Environmental Benefits (Grasscycling Logo)	Besides increasing property values, did you know a well-maintained lawn provides the following benefits to your home and environment:	
	<i>Grass clippings and yard waste are approximately 20% of the volume in our nation's landfills. To do your part to reduce this amount, leave grass clippings on your lawn. Increased mowing height and frequency will produce smaller grass clippings that will decompose more readily so nutrients go back into your lawn.</i>	✓ A 50' x 50' lawn produces enough oxygen for a family of 4 every day
		✓ Reduces Glare & Reduces Noise
		✓ Traps Dust, Smoke Particles & Other Pollutants
		✓ Purifies Water & Modifies Temperature
	✓ Improves Soil Condition & Controls Erosion	

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container and keep any bags containing unused product in locked storage area inaccessible to children and domestic animals. Do not store near feed or foodstuffs. To prevent cross-contamination, do not store near open containers of fertilizer, seed, or other pesticides.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(RV_____)

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The following note will not be part of the actual label copy.

*NOTE: Guaranteed (fertilizer) Analysis and Spreader Settings will vary among various commercial fertilizer manufacturers. Chlorine declaration and fertilizer guarantee are optional except where mandated by State fertilizer regulation.

Editor's notes: 1. Subregistrant Warranty Statements previously accepted by U.S. EPA for use on their own registered products are not included on this label.
2. Subregistrant's trademark name acknowledgments are not included on this label.

OPTIONAL MARKETING STATEMENTS:

Contains VIPER® Broadleaf Herbicide

Warm Season Broadleaf Control – SPRING / SUMMER

Summer long feed with UMAXX technology plus warm season broadleaf control

Four component herbicide that controls most broadleaf weeds

More than 250 weeds controlled!

App 2 [of 4 step program] [App1: JRK Brand Crabgrass Preventer & Lawn Fertilizer; App2: JRK Brand Weed & Feed; App3: JRK Brand Turf Special; App4: JRK Brand Winterizer]

JRK Brand

A Gertens Family of Products

Increases water retention

Improves turf and soil quality

Contains Humic and fulvic acids

Fortified with Nutromatic [ingredients]

Maximize Your Lawn's Potential!

Fights Weeds with VIPER® Herbicide!

A fertilizer containing VIPER® Herbicide which controls: Dandelion, Spurge, Plantain, Chickweed and many other broadleaf weeds.

Use when weeds are actively growing.

Controls over 200 Broadleaf Weeds!

Lawn Fertilizer with Weed Control

Nitrogen – Promotes thick, green turf (or) For vigorous blade, leaf and stem growth and dark green color (or) Contains no Nitrogen

Phosphate - For root development and growth (or) Contains no Phosphorous

Potash or Potassium – Strengthens grass against disease (or) Promotes strong roots and improves turf hardness (or) Contains no Potassium

OPTIONAL SPREADER INSTRUCTIONS:

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply product along the length of the lawn, overlapping very slightly and shutting off spreader when turning.

(Illustration) For Rotary Spreaders: Apply in a circular path, starting on the outside and working toward the center, overlapping very slightly.

For Broadcast Spreaders: Apply in a circular path, starting on the outside and working toward the center, overlapping very slightly.

OPTIONAL FERTILIZER TEXT:

Contains LESCO Poly Plus ® Sulfur Coated Urea to provide uniform growth with extended nitrogen feeding. Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea.

Poly Plus ® is comprised of Polymer Coated Sulfur Coated Urea.

With FERTIL BLEND™

OPTIONAL LABEL LANGUAGE FOR DIFFERENT BAG SIZES:

XX pound bag should treat XXXXX square feet